



INDIAN SCHOOL MUSCAT
SENIOR SECTION
DEPARTMENT OF MATHEMATICS
CLASS IX
WORKSHEET NO.6

SECTION A: (1 MARK)

1. Find the area of a triangle having base 6 cm and altitude 8 cm. 24 cm²
2. Two sides of a triangle are 13 cm and 14 cm and its semi-perimeter is 18 cm. Find the third side. 9 cm
3. Find the area of an equilateral triangle with side $2\sqrt{3}$ cm. (NCERT Exemplar) $3\sqrt{3}$ cm²

SECTION B: (2 MARKS)

4. Find the area of a triangle when $a = 3/2$ cm, $b = 5/2$ cm, and $c = 2$ cm (CBSE 2011) 1.5 cm²
5. The perimeter of an isosceles triangle is 32 cm. The ratio of the equal side to its base in 3:2. Find the area of the triangle. $32\sqrt{2}$ cm²
6. Find the area of a rhombus whose one side is 20 m and one diagonal is 24 m. 384 m²

SECTION C: (3 MARKS)

7. In a rectangular field of dimensions 50 m x 30 m, a triangular park is constructed. If the dimensions of the park are 14 m, 15 m and 13 m. Find the area of the remaining field. (NCERT Exemplar) 1416 m²
8. The semi-perimeter of a triangle is 132 cm. The product of the difference of semi-perimeter and its respective sides is 13200 cm³. Find the area of the triangle. 1320cm²
9. Find the area of a parallelogram whose adjacent sides are 10 cm and 12 cm and one of its diagonal is 14 cm. $48\sqrt{6}$ cm²

SECTION D: (3 MARKS)

10. The lengths of two adjacent sides of a parallelogram are 17 cm and 12 cm. One of its diagonal is 25 cm long. Find the area of the parallelogram. Also find the length of the altitude from vertex on the side of length 12 cm. (2016) 180 cm²,
15 cm
11. If each side of any triangle is doubled then find the percentage of increase in its area. 300%
12. Calculate the area of the shaded region 54 cm²

